L 14307-65

ACCESSION NF:: AT4048049

0

weight difference of the samples was never more than 0.5%, no chemical analysis was performed. Microstructural and thermal analyses were performed on each sample. The specific electrical resistance and hardness were determined. The results of tests on samples containing the usual 6:1 ratio of titanium to aluminum and having less than 10% by wt. zirconium, when heated to 500C, showed that the samples contained a new solid solution of $\alpha + 1/2$ form. All alloys of this type undergo polymorphic transformations, analogous to the transformation of pure titanium and zirconium in the Ti-Zr system, in which the transformation may be pinpointed at the minimum on the temperature vs. composition curve, i.e. at 660C and 65% Zr. The specific electrical resistance and hardness, determined from tests on samples which were quenched from temperatures of 1100, 800, and 500C, follow an increasing curve; the hardness reaches a maximum in samples cooled from a composition which produces a β -solid solution. Orig. art. has: 4 graphs, 1 table and 5 photomicrographs.

ASSOCIATION: None

SUBMITTED: 15Jul64

ENCL: 00

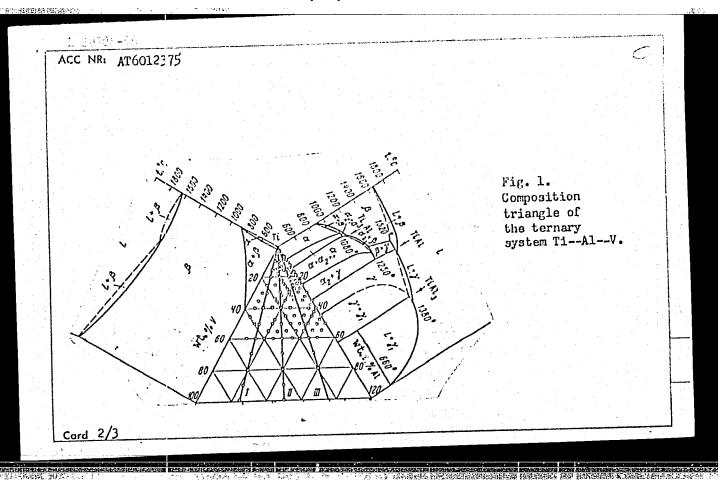
SUB CODE: MM

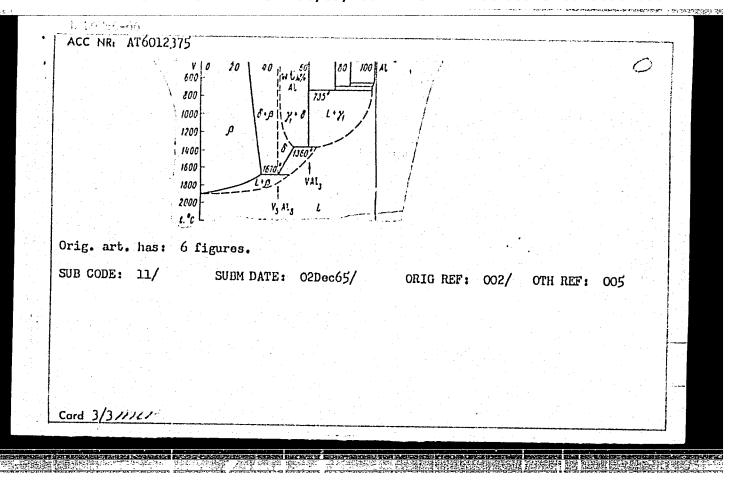
NO REF SOV: 002

OTHER: 004

Card 2/2

SCURGE CODE: UR/0000/65 000/000/0092/0097 AT6012375 ACC NR AUTHORS: Kornilov, I. I. (Doctor of chemical sciences, Professor); Volkova, K. A.; Pylayeva, Ye. N. ONG: none TITLE: Investigation of the alloys of the ternary system Ti-Al--V SOURCE: Soveshchaniye po metallokhimii, metallovedeniyu i primeneniyu titana i yego splavov, 6th. Novyye issledovaniya titanovykh splavov (New research en titanium alloys); trudy sovushchaniva. Moscow, Izd-vo Nauka, 1965, 92-97 TOPIC TAGS: titanium, aluminum, vanadium, alloy phase diagram, ternary alloy, ABSTRACT: The alloys of the system Ti-Al-V were studied. The experimental results supplement an earlier investigation by I. 1. Kornilov, Ye. N. Pylayeva, M. A. Volkova, P. I. Kripyakevich, and V. Ya. Markiv (Nastoyashchiy sbornik, str. 18). The experiments were carried out with bitanium indido (99.7%, Ti), AVOOO aluminum (99.99%) and carbothermal vanadium (99.5% V). The phase diagrams of the system and the microstructure, hardness, and electrical resistance of the alloys were determined. Experimental results are presented graphically (see Fig. 1). The minimum hardness and electrical resistance of alloys containing 15--16% Al and an Al/V ratio of 3:1 are due to the formation of a solid solution on the basis of the compound Ti3Al in the ternary system. Card_1/3

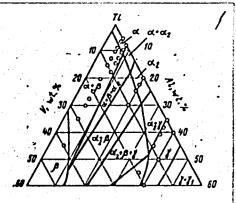




JD/JG 空(m)/f (m)/f/左至(4), 至[1] 139(z)1. 59972-56 SOURCE CODE: UE/0370/66/000/002/0137/0143 ACC NRI AP6013367 Kornilov, I. I. (Moscow); Pylayeva, Ye. N. (Moscow); Volkova, M. A. ORG: none TITLE: Evaluation of the creep of alloys of the Ti-Al-V system by the bending method at elevated temperatures SOURCE: AN SSSR. Izvestiya. Metally, no. 2, 1966, 137-143 TOPIC TAGS: creep, titanium alloy, vanadium alloy, aluminum alloy ABSTRACT: Continuing their study of the high-temperature strength of titanium alloys, the authors investigated it in the ternary system Ti-Ai-V as a function of alloy composition and structure. An isothermal section of the system at 550°C was plotted on the basis of microstructural and x-ray analyses and a determination of the properties; the regions of the α and β solid solutions of titanium and of the intermetallic compound Ti3A1 (2 phase) are indicated (see Fig. 1). Alloys of the Ti-Al-V system along sections with constant aluminum contents of 5, 7.5, and 20% were found to have a maximum creep resistance near the boundary of the limiting solutions based on α Ti, β Ti, and Ti₃Al; the lowest high-temperature strength is displayed by alloys from the regions ($\alpha + \beta$) and ($\alpha + \beta$) with a coarse two-phase structure. Alloys from the region of the Y phase have a high creep resistance at UDC: 669.017.13 Card 1/2

ACC NR: AP6013367

Fig. 1. Isothermal section of a portion of the ternary system Ti-Al-V at 550°C and compositions of alloys (points) tested for high-temperature strength.

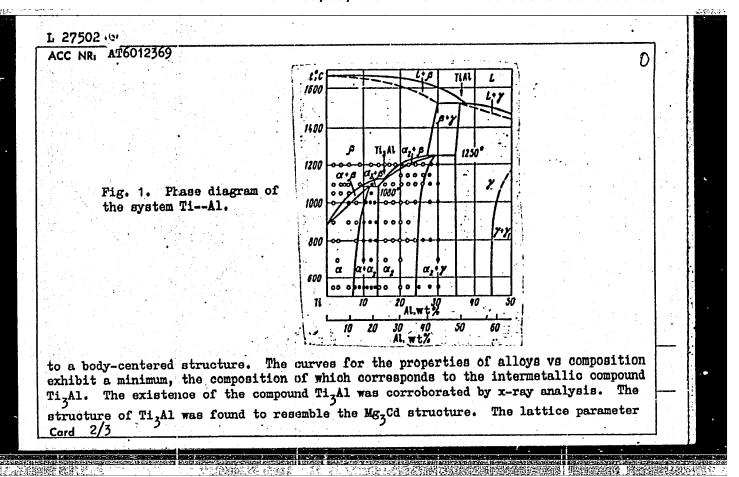


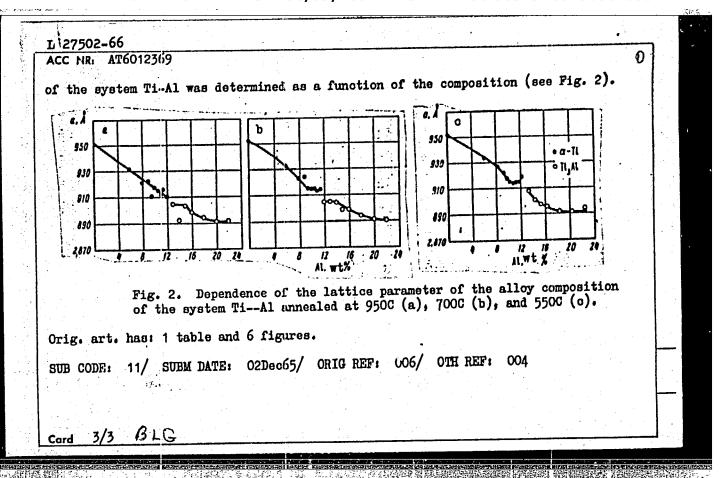
 800° C and $\sigma = 15 \text{ kg/mm}^2$; in tests of alloys of this series under these conditions by the standard stress-rupture strength method, the time to break was 226-446 hours. The great high-temperature strength of alloys based on the compounds Ti₃Al and TiAl opens up new prospects for the development of new alloys of this type. Orig. art. has: 4 figures and 5 tables.

SUB CODE: 11/ SUBM DATE: 22Jun64/ ORIG REF: 007/ OTH REF: 006

Card 2/2/MCP

IJP(c) JH/JD/GS EWT(m)/T/EWP(t)/ETI L 27502-66 SOURCE CODE: UR/0000/65/000/000/0048/0055 ACC NR AT6012369 AUTHORS: Kornilov, I. I. (Doctor of chemical sciences, Professor); Volkova, M. A. Pylayeva, Ye. N.; Fripyakevich, P. I.; Markiv, V. Ya. ORG: none Br Investigation of equilibrium diagrams of titanium-rich alloys of the system TITLE: <u>Ti--Al</u> SOURCE: Soveshchariye po metallokhimii, metallovedeniyu i primeneniyu titana i yego splavov, 6th. Novyye issledovaniya titanovykh splavov (New research on titanium alloys); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1965, 48-55 TOPIC TAGS: titanium, aluminum, alloy phase diagram, titanium alloy, binary alloy, lattice parameter ABSTRACT: The phase diagram of the binary system Ti-Al (containing up to 30% Al) was determined. The diagram was constructed on the basis of thermal, microstructural, dilatometrical, and x-ray analysis. In addition, the specific electrical resistance and hardness of the alloy specimens were determined. The investigation supplements earlier work of N. V. Grum-Grzhimaylo, I. I. Kornilov, Ye. N. Pylayeva, and M. A. Volkova, (Dokl. AN SSSR, 1961, 137, No. 3, 599). The experimental results are summarized in graphs and tables (see Fig. 1) and compared to earlier literature data. A rearrangement takes place in the alloys in the temperature region from 882 to 1250C. These temperatures correspond to a transition from a hexagonal close-packed structure Card 1/3





L 44790-65 EWI(m)/EPR/EWP(t)/EWP(t) Ps-4 IJP(c) UR/0020/65/161/004/0843/0846 ACCESSION HR: AP 1010833 AUTHOR: Kornilov, I. I.; Pylayeva, Ye. N.; Volkova, M. A.; Kripyakevich, P. I.; Markiv, V. Ya. TITLE: Phase composition of binary Ti-Al alloys containing from 0 to 30% Al SOURCE: AN SSSR. Doklady, v. 161, no. 4, 1965, 843-846 TOPIC TAGS: titenium aluminum system, titanium alloy, aluminum containing alloy, alloy phase composition, alloy resistivity, alloy hardness ABSTRACT: Binary Ti-Al alloys containing from 0 to 30% Al, levitation meltedior are melted in an inert gas atmosphere, were investigated in as-cast condition or deformed at 800-1000C with a reduction of 30%. The thermal analysis data showed that all alloys undergo the solid state transformation from a c.p.h. to b.c.c. structure. Microscopic examination and x-ray diffraction patterns revealed the following phases, (solid solutions): β —on a β -Ti base, α —on a α -Ti base, α —on a base of the ordered tetragonal structure of TigAl compound of the MggCd type. Results of the measurements of the resistivity and hardness closely corresponded to one another and confirmed the results of the thermal, metallographic, and x-ray analysis. A phase diagram of the investigated Ti-Al system based on the results obtained is shown in Fig. 1 of the Enclosure. Orig. art. has: 3 figures. Card 1/8 7

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	ACCESSION NR: AP5010833 ASSOCIATION: Institut metallurgii in. A. A. Baykoya (Institute of Metallurgy)													
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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620004-4"

TXACHUL, V.G.; STEPANOV, V.M.; VOLKOVA, M.A.

Underground waters of the Buryat A.S.S.R. Mat. Kom. pointible.
podzem. vod. Sib. i Dal' Vost. no.2:154-163 '62.

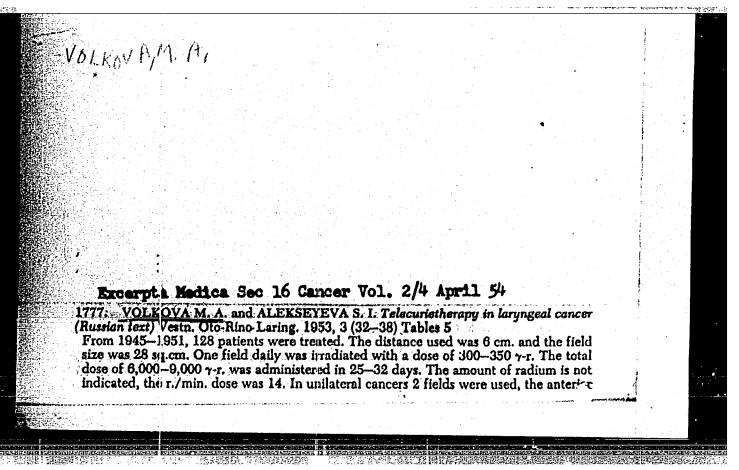
(MIRA 17:8)

VOLKOVA, M.A.; PEL'MAN, S.G.; DAR'YALOVA, S.L.

Comparative distribution of colloid solutions of radioactive yttrium salts in animals during intra-abdominal administration. Med. rad. 7 no.12:3-7 D*62. (MIRA 16:10)

1. Iz radiologicheskogo otdeleniya (zav. - kand.med.nauk M.A.Volkova) Gosudarstvennogo onkologicheskogo instituta imeni P.A.Gertsena.

*



1777 CONT

and a lateral field; in bilateral localization a controlateral field was added. In 125 cases biopsy was performed. Histologically the diagnosis of cancer was confirmed in 95 patients and in 30 the histological diagnosis was an inflammatory process. Nevertheless all these cases were considered as cancers on clinical findings only. Ten patients are living and well more than 5 yr., 6 more than 4 yr. and 6 more than 3 yr. after treatment. It is not clear whether the cured patients are of the group diagnosed histologically as cancer of the group diagnosed as inflammation.

Körbler — Zagreb

VOLKOVA, M. A.

"Experiment With Combination Treatment of Malignant Tumors of the Superior Maxilla." Cand Med Sci, Central Inst for the Advanced Training of Physicians, Moscow, 1953. (RZhBiol, No 2, Sep 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

USSR/Medicine - Radiology

FD-693

Card 1/1

: Pub 132 3/22

Author

: Volkova, M. A., Candidate Medical Sciences

Title

: An experiment on the use of radioactive cobalt for teleradium threapy

Periodical

: Vest. Rent. i Rad., 14-21, May/June, 1954

Abstract

: An experiment showed that radioactive cobalt can be used successfully in place of the natural radium for teleradium therapy. Analysis of 709 patients treated in this manner indicated no deficiencies in the therapy. The exposure time and the duration of the reaction were the same as with natural radioactive substances. Recovery time of the tissue after radiation was also the same. Three tables; no references.

Institution

: State Oncological Institute imeni P. A. Gertsena (Director-Docent A. N. Motnenko (deceased); scientific supervisor - Corresponding Member Acad-

emy of Medical Sciences Professor A. I. Savitskiy).

Submitted

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620004-4" YOLKOWAY MATY: MATYEYEVA, T.N.

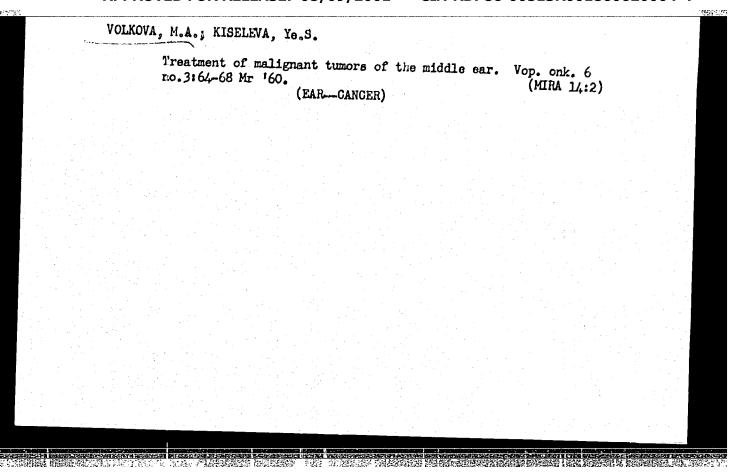
Telegamma-therapy of lung cancer; immediate results [with summary in English]. Khirurgiia 33 no.12:25-28 D 157. (MIRA 11:2)

1. In Gondarstvennogo onkilogicheskogo instituta imeni P.A.Gertseme (Mauchnyy rukovoditeli - chlen-korrespondent ANN SSSR prof. A.I. Savitekiy dir. - prof. A.M.Movikov, zav. radiologicheskim otdeleniyem kandidat meditainskikh mauk M.A.Volkova)

(IJING NEOPIASMS, ther.

telegammather.)

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telegammather. in cancer of lungs)



VOLKOVA, Mariya Alekseyayna; LANDAU-TYLKINA, S.P., red.; LYUDKOVSKAYA,

N.I., tekhn. red.

[Telegamma therapy of malignant tumora] Telegammaterapiia
zlokachestvennykh opukholei. Moskva, Medgiz, 1961. 115 p.

(GAMMA RAYS--THERAFEUTIC USE) (CANCER)

VOLKOVA, M.A.; BELYAKOV, V.A.; MEDVEDEV, Yu.A.

Distribution of depth doses from the telegarma apparetus with C₈137. Med.rad. no.5:82-86 '61. (MIRA 14:11)

1. Is Gosudarstvennogo nauchno-issledovatel skogo onkologicheskogo instituta imeni P.A. Gertsena.
(CESIUM--ISOTOPES) (GAMMA RAYS--THERAPEUTIC USE)

NOVIKOV, A. N.; VOLKOVA, M. A.; KISELEVA, Ye. S.

Radioactive colloidal gold in the combined treatment of lung cancer. Med. rad. no. 4:8-12 '62. (MIRA 15:6)

(GOID.—ISOTOPES) (LUNGS—CANCER)

VOLKOVA, M.A.; ASHIKHMINA, I.G.

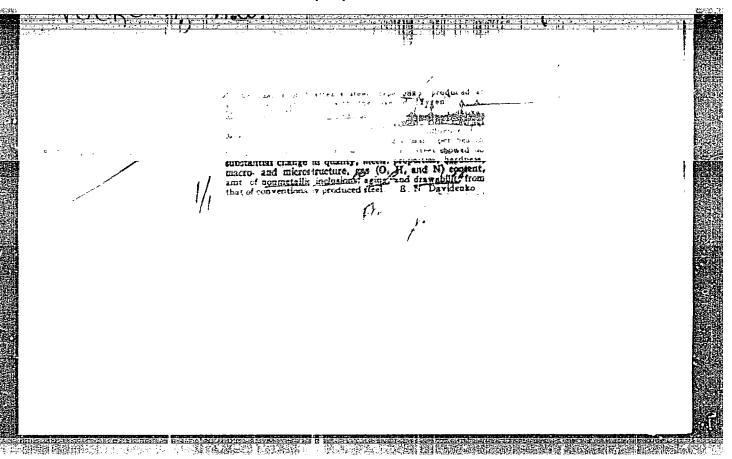
Comparative study of the distribution of radioactive colloidal gold and radioactive colloidal gold covered with stabile silver in intra-abdominal administration. Med.rad. 7 no.6:32-36 Je 162.

(MIRA 15:8)

1. Iz radiologichoskogo otdeleniya (zav. - kand.med.nauk M.A. Volkova) Gosudarstvennogo onkologicheskogo instituta imeni P.A. Gertsena.

(GOLD-ISOTOPES)

(SILVER IN THE BODY)



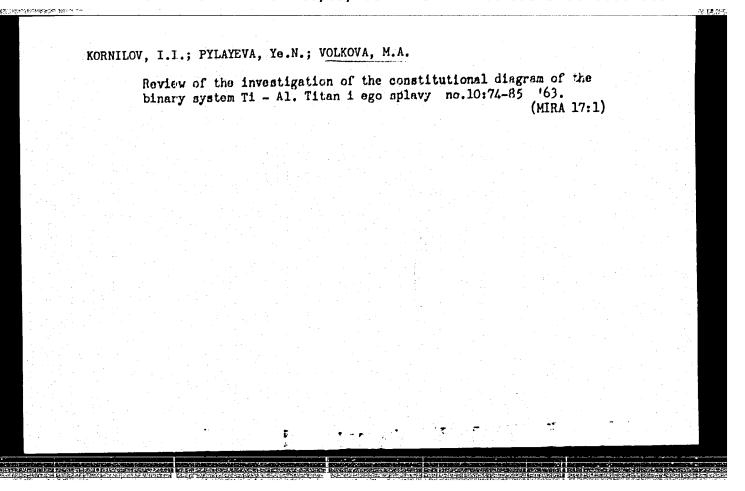
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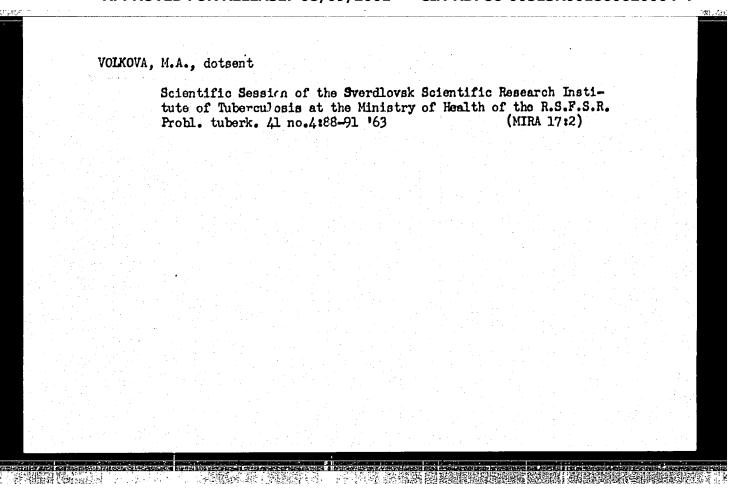
KORULOV, I.I.: PYLAYEVA, Ye H.: Victoria M. Sell Marking, 1.Ye.

Phase structure of alloys of the bloomy system 71 - 31 containing from 0 to 30% of Al. Dokl. AN SOSR 161 no.4:843-846 Ap 165.

(MRA 18:5)

1. Institut metallurgit im. A.A.Baykova. Submitted September 26, 1964.





VOLKOVA, M.A.; DRITS, F.A.; MISHINA, R.G.; GORBUNOVA, A.YR.; KRAL'KO, Yo.A.

Dispensary examination without restriction for the detection of pulmonary tuberculosis. Prob. tub. no.1: 10-14 '63.

(MIRA 16:5)

1. Iz Irkutskogo oblastnogo protivotuberkuleznogo dispansera (glavnyy vrach - dotsent M.A. Volkova)

(TUBERCULOSIS-PREVENTION)

VOLKOVA, M. A.; KISELEVA, Ye. S.; PEL'MAN, S. G.; KANEVSKAYA, A. I.

Proliminary data on the use of radioactive colloidal gold in the combined treatment of breast cancer. Med. rad. no.12:3-9 161.

(MIRA 15:7)

1. Iz Gosudarstvennogo onkologicheskogo instituta imeni P. A. Gertsena.

(BREAST__CANCER) (GOLD__ISOTOPES)

GRIGOR YANTS, A.N., kand.med.nauk; VOLKOVA, M.A.

Treatment of myelomic disease. Sov.med. 26 no.7:20-23 Jl '62.

(MIRA 15:11)

1. Iz kafedry gospital'noy terapii pediatricheskogo fakul'teta
(ispolnyayushchiy obyazannosti zaveduyushchego - dotsent Ye.V.
Kasatkin) II Moskovskogo meditsinskogo instituta imeni N.I.
Pirogova.

(MARROW—CANCER) (DOPAN) (STEROID) (ERGOCALCIFEROL)

在建筑和物质保护

KORNILOV, I.I.; BUDEERG, P.B.; VOLKOVA, M.A.; PROKHANOV, V.F.;
PYLAYEVA, Ye.N.

Developing a method of hot pressing of titanium and titanium alloy powders. Titan i ege splavy no. 1:25-32 '58. (MIRA 14:5)

1. Institut metallurgii AN SSSR.
(Titanium—Metallurgy) (Powder metallurgy)

GRUM-GRZHIMYLO, N.V.; KORNILOV, I.I.; PYLAYEVA, Ye.N.; VOLKOVA, M.A.

Matallic compounds in the region of Asolid solutions of the system titanium - aluminum. Dokl AN SSSR 137 no.3:599-602 Mr '61.

(MIRA 12:2)

1. Institut metallurgii im.A.A.Baykova AN SSSR. Predstavleno akademikom I.I.Chernyayevym.

(Titanium-aluminum alloys)

S/129/60/000/011/011/016 E073/E535

AUTHORS:

Mitrofanov, A.A., Candidate of Technical Sciences, Volkova, M.A/, Letchford, N.I., Mochalov, G.N.,

Engineers (

TITLE:

经数据 医眼镜 经

Application of Converter Steel in the Automobile

Industry

PERIODICAL:

Metallovedeniye i termicheskaya obrabotka metallov,

1960, No.11, p.46.

Data are given on industrial tests relating to the TEXT: use of converter steel (0.17% C, 0.46% Mn, 0.032% S, 0.038% P) in From 8 ton ingots of three commercial the motor car industry. melts, strip was rolled which was used for producing rims of truck wheels. It was found that the chemical composition and the mechanical properties are the same as for open hearth steel. the Gor'kiy Automobile Works 2900 such rims were produced and the The number of performance of 1684 of them was closely observed. rejects due to cracking along the weld seam during stretching of the rim was 0.87% for the experimental batch as compared to 0.71% for the batch made of open hearth steel of a similar composition. With these rims disc wheels were made which were fitted on 264 trucks. Card 1/2

S/129/60/000/011/011/016 E073/E535

Application of Converter Steel in the Automobile Industry So far, these trucks have run over 50 000 km. It is concluded from the results that the investigated converter steel is as good as open hearth steel, particularly for hot rolled and cold rolled sheets which are to be used for deep drawing. There is 1 table.

ASSOCIATIONS: TSNIICHM, GAZ and ZIL

Card 2/2

SHVARTSMAN, B.Kh.; VOLKOVA, N.S.

Determination of the composition of aluminate solutions practically at equilibrium with silica obtained at various stages of thickening by evaporation during the treatment of bauxites. Zhur. prikl. khim. 37 no.2:250-255 F '64.

(MIRA 17:9)

VOLKOVA, N.S.; KHUTAHEVA, G.V.; KRENTSEL!, B.A.; POGOVIN, Z.A.;
TOPCHIYEV, A.V.

Synthesis and study of stereoregular propylene - isoprene copolymers. Vysokom.soed. 1 no.12:1758-1763 D '59. (MIRA 13:5)

1. Moskovskiy tekstil'nyy institut i Institut neftekhimicheskogo sintesa AN SSSR. (Propene) (Isoprene)

AUTHORS: Shvartsman, B. Kh., Candidate of Technical Sciences, and

Volkova, N. S., Engineer

TITLE: Preparation of High-Grade Alumina from Bauxites by the

Roasting (Deville-Pechiney) Process

PERIODICAL: Tsvetnyye metally, 1960, Nr 4, pp 48-51 (USSR)

ABSTRACT: The standard Deville-Pechiney process in which CO2 is used to precipitate Al(OH)2 from an aluminate solution, yields alumina containing more than 0.15% SiO2, i.e. material of the G2 or G3 grade. The object of the investigation, described in the present paper, was to explore the possibility of modifying this process to make it capable of producing high-purity alumina, corresponding to grades GO or even GOO, without lowering the overall degree of decomposition of the aluminate solution below 90%. To this end, a method of so-called combined decomposition of the aluminate solution was used, which combined partial decomposition of the solution followed by settling. Solutions, prepared by lixiviation of products of roasting obtained at the Tikhvin Aluminium

Card 1/5

Plant, were used in the experiments in which particular attention was given to the fact that solubility of silica

Preparation of High-Grade Alumina from Bauxites by the Roasting (Deville-Pechiney) Process

in the aluminate solution increases with falling temperature. To establish the effect of temperature variation on the quality of aluminium hydroxide, the first stage of decomposition of the aluminate solution (i.e. the carbonization process) was carried out at 78 and 85°C; in the second stage (settling), the temperature was allowed gradually to drop to 40 to 45°C. Preliminary experiments were conducted on solutions having the silicon modulus similar to that obtaining under the actual industrial conditions, i.e. equal 370 to 406. A gas containing 10 to 12% CO2 was used in the carbonization stage, and the "seed" was added in a quantity equivalent to 6 g of alumina per 100 g of Al₂O₃ in the solution, the SO2 content in the "seed" varying between 0.03 and 0.13%. The degree of decomposition during carbonization was varied to study the behaviour of the precipitated sodium alumina-silicate during subsequent settling. was established that, irrespective of the carbonization temperature, precipitation of silica during settling continues up to a given moment, after which its content

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620004-4"

Preparation of High-Grade Alumina from Bauxites by the Roasting (Deville-Pechiney) Process

increases. In cases, when the solution at the end of the carbonization stage contained 22 to 25 g/l Na₂O, the SiO₂ content began to increase at $\alpha_K > 2.7$, and aluminium hydroxide of grade Gl was obtained, the degree of decomposition of the solution amounting to 90 to 92%. The results of some experiments are reproduced in Fig l under the following headings: temperature, °C, during carbonization and during settling; condition of the solution (starting solution, after 8 h 15 min carbonization, after 25 h settling; starting solution, after 7 h 45 min carbonization, after 24 h settling; starting solution, after 6 h carbonization, after 20 h settling); characteristics of the solutions (content, g/l, of Al₂O₃, Na₂O₄total, Na₂O₅silicate, Na₂O₄carbonate, and SiO₂; α_K; degree, %, of decomposition); SiO₂content, %, in washed aluminium hydroxide and related to alumina. These results have shown that when aluminate solutions, with the silicon modulus of 380, are treated by the combined process under

Card 3/5

Preparation of High-Grade Alumina from Bauxites by the Roasting (Deville-Pechiney) Process

conditions of high degree of decomposition, alumina of grade no higher than Gl can be produced. It was thus necessary to reduce the silica content in the aluminate solution by the application of high (250°C) temperature and addition of red mud, and to explore the possibility of preparing high-grade alumina from solutions having the silicon modulus higher than that obtaining under industrial conditions. It was established in the course of the subsequent experiments that the silicon modulus can be increased by: (1) agitating the solution with suspension of red mud prior to removal of silica in order to produce nuclei for crystallization of sodium aluminasilicate; (2) agitating the pulp, after removal of silica, at 100°C for several hours to reduce the degree of super-saturation of the aluminate solution with silica; (3) increasing the temperature of the treatment. It was found, also, that the silicon modulus of the solution could be increased by 100 units if removal of silica (following the autoclave treatment) was carried out

Card 4/5

Preparation of High-Grade Alumina from Bauxites by the Roasting (Deville-Pechiney) Process

attemperatures > 200°C. The results of the experiments carried out on solutions with the silicon modulus of 550 to 560, are presented in Table 2 under headings identical to those in Table 1. It will be seen that if a solution with a silicon modulus of approximately 550 is used, the combined precipitation method is capable of producing alumina of grade GOO (with respect to the silica content) and GO (with respect to the alkali content), with the degree of decomposition of the aluminate solution approaching 92 to 93%. There are 2 tables.

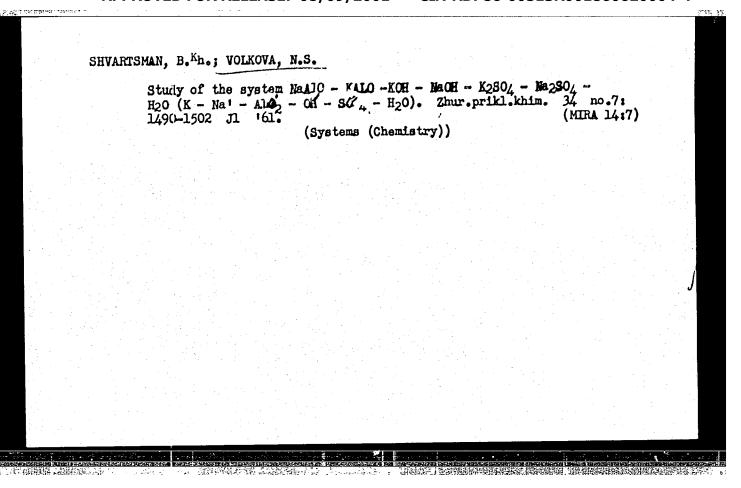
Card 5/5

SHVARTSMAN, B.Kh.; VOLKOVA, N.S.

(btaining high-grade alumina (GO and GOO brands) by the treatment of nepheline rocks. TSvet, met. 34 no.2:60-65 F '61.

(MIRA 14:6)

(Nephelite) (Alumina)



SHVARTSMAN, B.Kh.; VOLKOVA, N.S.

Sindy of the system Mallo2-Kalo2-KoH-NADH-K2SO4-Ha2So4-H2O (K'-Na-Ald2-OH-So4-H2O). Zhur. prikl. khim. 34 no. 12:2633-2649 D '61. (MIRA 15:1)

(Systems (Chemistry))

現代の政権に対象を対象によっています。 1980年 できる 1980年 できる 1980年	
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L 38847-66 EWP(j)/EAT(m)/T LIP(c) RM/ST SOURCE CODE: UR/ST1/85/000/016/S048/S048	
-L 36047-00 10/041957	- : '
ACC NR: AR6011877	
Yo G.: Volkova, II. S.; Bykova, V. As.	
AUTHOR: Novikov, Ye. G.: Volkova, N. S.; Bykova, G. Ye.	10.45
TITLE: Preparation of carbazole-phenol-formaldehyde resins (
TITLE: Preparaction of	
SOURCE: Not. 200 - 2. Systatuvany	
SOURCE: Ref. zh. Khimiya, Abs. 165322 REF SOURCE: Sb. Khim. produkty koksovaniya ugley Vost. SSSR. Vyp. 2. Sverdinvsk,	مردو دی
1964, 164-171.	
1964, 104-172	
TOPIC TAGS: phenolformaldehyde, phenolic plastic, resin	
ABSTRACT: The conditions of preparation of target the preparation of carbanets studied in detail. The choice of the conditions for the preparation of carbanets studied in detail. The choice of the conditions was determined by using pure carbanets studied in detail. The choice of the conditions was determined by using pure carbanets formelites in an easily extractable lamellar form was determined by using pure carbanets formelites in an easily extractable lamellar form was determined by using pure carbanets formelites in an easily extractable lamellar form was determined by using pure carbanets.	-
	4
formolites in an easily extractable formalin and H2SO4. The following opening ratio	
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	1 10
11-12% of total charge, acid distance by condensing the carbazors at 100-105°,	Sec. of
	8
I I TANAL DIG I CUIDANTE A TANAL IN TRIBUIL VIVE A TANAMAN TOUR COMMAND	
distilling off the water, and dielectric properties of pressed products given. The high	
phenol and formalin while heating the reagon the temperature to 130-140 phenol and formalin while heating the reasons the temperature to 130-140 phenol and formaling off the water, and gradually raising the temperature to 130-140 phenol and formal gradually raising the temperature to 130-140 phenol and formal gradually raising the temperature to 130-140 phenol and formal gradually raising the temperature to 130-140 phenol and formal gradually raising the temperature to 130-140 phenol and formal gradually raising the temperature to 130-140 phenol and formal gradually raising the temperature to 130-140 phenol and formal gradually raising the temperature to 130-140 phenol and formal gradually raising the temperature to 130-140 phenol and formal gradually raising the temperature to 130-140 phenol and formal gradually raising the temperature to 130-140 phenol and formal gradually raising the temperature to 130-140 phenol and gradually raising the temperature to 130-140 phenol gradually raising th	
distilling off the water, and gradually distil	a
Card 1/2	
Lara-	

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partially replace phenol in the production of phenoplasts without reductive. M. Mishchenko. [Translation of abstract] SUB CODE: 11,07	
SUB CODE: 11,07	
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	1,10.
	7:
4、19、14、14、14、14、14、14、14、14、14、14、14、14、14、	

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620004-4"

VOLKOVA, N.S.; KONKIN, A.A.

Rheological properties of plasticized systems. Khim. volok. no.3:7-11 165. (MIRA 18:7)

1. Kiyevskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Volkova). 2. Moskovskiy tekstil'nyy institut (for Konkin).

VOLKOVA, N.S.; KONKIN, A.A.

Rheological properties of polyvinyl alcohol solutions of medium concentration. Khim. volok. no.4:17-20 '64. (MIRA 18:4)

1. Kiyevskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta iskusstvennogo volokna (for Volkova). 2. Moskovskiy tekstil'nyy institut (for Konkin).

KRISHTOFOVICH, Lyudmila Vyacheslavovna; VOLKOVA, N.S., red.; ICNINA, I.N., vedushchiy red.

[Tertuary mollusks of Sakhalin] Mclliuski tretichnykh otlozhenii Sakhalina. Leningrad, Nedra, 1964.342 p. (Leningrad, Vsesoiuznyi neltianoi nauchno-issledovatel'skii geologorazvedochnyi institut. Trudy, no.232). (MIRA 18:1)

Some general principles theoreting of the second kind. Trudy KAI no.77:109-120 163.

Multiple statically indeterminate trusses with minimum volume of the (n+1) kind. Ibid.:121-129

SHVARTSMAN, B.Kh.; BELETSKIY, M.S.; VOLKOVA, N.S.; LEONENKOVA, T.A.

Composition of sodium and potassium aluminosilicates separating out in the process of removal of silicon compounds from aluminate-alkali solutions. Zhur. prikl. khim. 36 no.10: 2103-2108 0 163.

(MIRA 17:1)

VESELOV, A.A.; VOLKOVA, N.S.

Age of the Askaniyskaya series of the northern wing of the Black Sea Lowland and the Ol'ginskoye series of the Northern Caucasus. Dokl. AN SSSR. 154 no.5:1084-1086 F'64.

(MIRA 17:2)

1. Predstavleno akademikom D.V. Nalivkinym.

Shvarteman, B.Kh.; Volkova, N.S.

Solubility of sodium metasilicate in alkaline solutions at temperatures of 15°, 20°, 30°, and 40° C. Zhur. prikl. khim. 34 no.5:1155-1157 My '61.

(Sodium silicates)

(Sodium silicates)

SHVARTSMAN, B.Kh.; VOLKOVA, N.S.; SHAVLOKHOVA, T.T.; GABILEV, V.Kh.;

KASHKOVSKIY, M.S.

Industrial testing of the methods of obtaining high-grade
alumina from nepheline. TSvet. met. 35 no.7:41-45

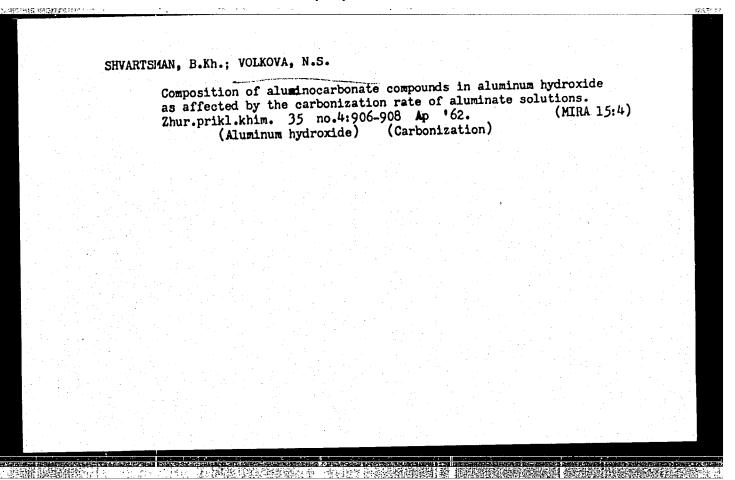
Jl '62. (Nepheline) (Alumina)

(Nepheline)

SHVARTSMAN, B.Kh.; VOLKOVA, N.S.

Effect of potessium on the process of desiliconizing aluminate solutions. TSvet. mot 35 no.6:84-86 Je '62. (MIRA 15:6)

(Aluminum—Metallurgy) (Leaching)



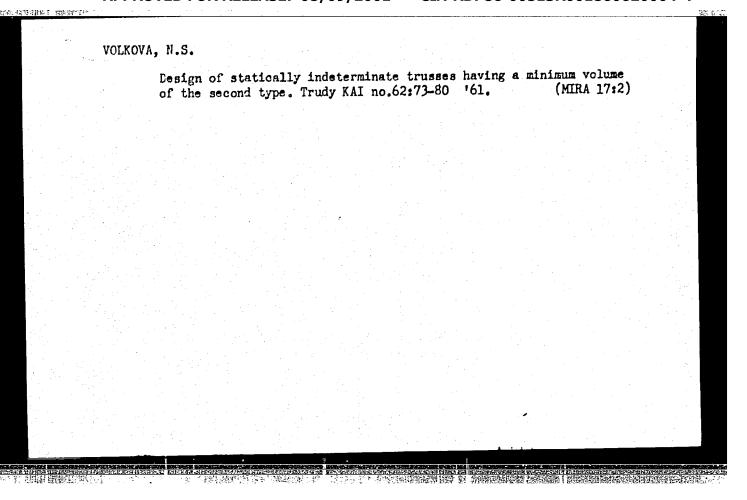
PRONINA, R.F., prepodavatel'; BEGUN, A.I., prepodavatel'; VOLKOVA, N.S., prepodavatel'; MOSHCHUK, Ye.I., prepodavatel'; TUKS, Ye.A., prepodavatel'; KHOLCHEVA, A.S., prepodavatel'; CHERNUKHIN, A.Ye., red.; ZHAVORONKOV, I.I., red.; KHITROV, P.A., tekhn.red.

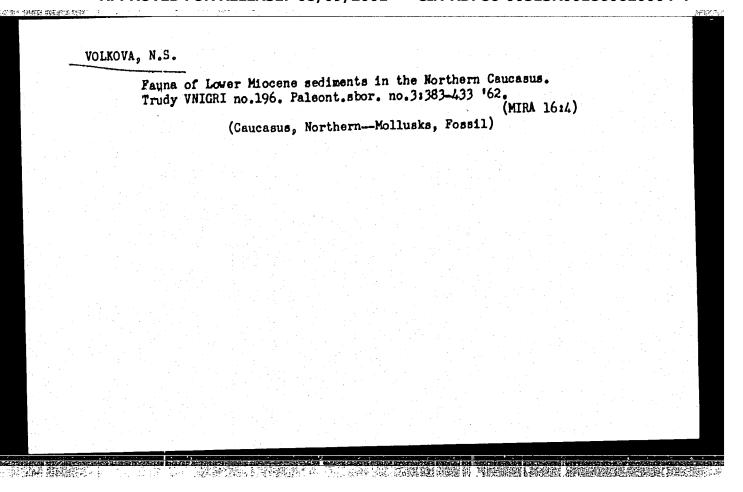
[English-Russian railroad dictionary] Anglo-russkii zhelezno-doroznyi slovar'. Pod red. A.E. Chernukhina. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 662 p. (MIRA 12:2)

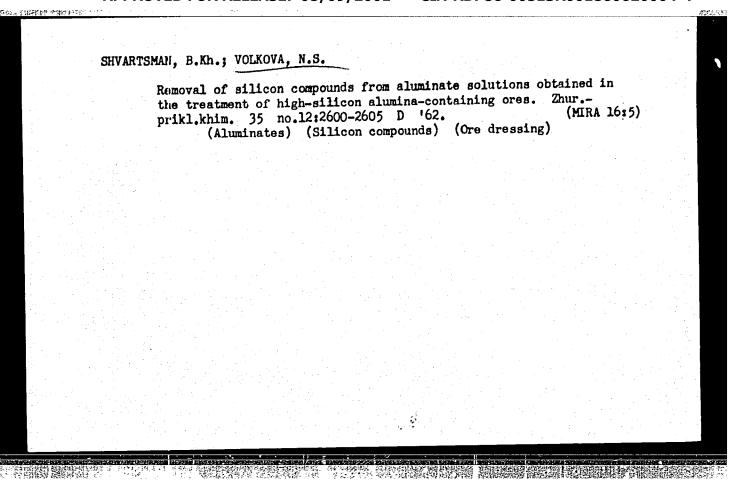
1.Kafedra inostrannykh yazykov Moskovskogo instituta inzhenerov zhelezno-dorozhnogo transporta (for Pronina, Begun, Volkova, Moshchuk, Fuks, Kholcheva).

(English language-Dictionaries-Russian)

(Railroads-Dictionaries)







VOLKOVA, N.V.; MEL'NICHENKO, I.V., YASNIKOV, A.A.

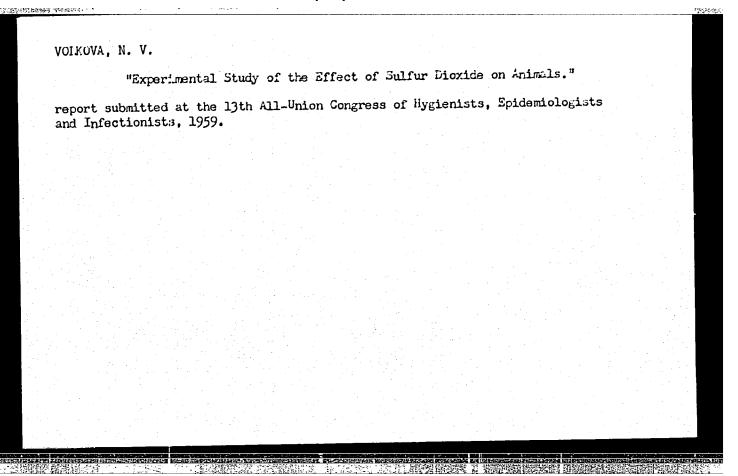
Catalytic action of amino acids and amines in reactions of carbonyl compounds. Part 17: Catalytic action of lysins in iodination of acetol phosphate and acetone. Ukr. khim. thur. 31 no.9:936-942 '65. (MIRA 18:11)

1. Institut organicheskoy khimii AN Ukrasa.

YASRIKOV, A.A.; SHILOV, Ye.A.; VOLKOVA, H.V.

Catalytic action of amino acids and amines in organic reactions.
Part 15. Ukr. khim. zhur. 30 no.12:1313-1318 164 (MIRA 18:2)

1. Institut organicheskoy khimii AN UkrSSR.



BOYKO, T.S.; VOLKOVA, N.V.; YASHIKOV, A.A.

Catalytic action of amino acids and amines in organic reactions. Part 10: Specific action of amino acids and amines in crotonic and aldol condensations of butyraldehyde. Ukr. khim. zhur. 29 no.11:1179-1187 '63. (MIRA 16:12)

1. Institut organicheskoy khimii AN UkrSSR.

Kinetics and mechanism of hydrolysis of acetol phosphate. Ukr. khim.zhur. 30 no.11:1178-1183 164. (MIRA 18:2)
1. Institut organicheskoy khimii AN UkrSSR.

VOLKOVA, N.V.; YASNIKOV, A.A. [IAsnikov, O.C.]

Kinetics and mechanism of acetol phosphate iodination in the

ninetics and mechanism of acetol phosphate iodination in the presence of amines and amino acids. Dop. AN URSR no.71901-903 (MIRA 18:8)

1. Institut organicheskoy khimii AN UkrSSR.

BELOY, K.F.; CORYAGA, A.N.; VOLKOVA, N.Y.

Anomaly of the electric resistance in the comparation temperature region in the ferrite NiFel.26Vo.74°4. Fiz. tver.tela 7 no.21474-475 F 165. (MIRA 18:8)

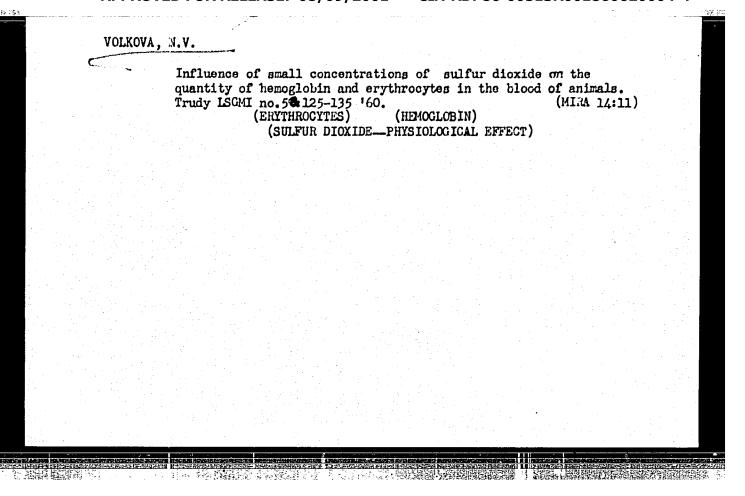
1. Moskovskiy gosudaratvennyy universitet imeni Lomonosova.

VOLKOVA, H.V.

Effect of impurities on the temperature dependence of the

strength of ionic crystals. Fiz. tver. tela 6 nc. 4:1229-1231 Ap 164. (MIRA 17:6)

1. Fiziko-tekhnicheskiy institut imeni Ioffe AN SSSR, Leningrad.



Aerosols and Trudy LSGMI	no.5 8 :136-148 (LENINGRAD-AI)	substances in '60. R POLLUTION' (AEROSOLS)	the air of cities. (MIPA 14:11) (CARCINOGENS)	

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620004-4"

KACHANOV, L. M.; KHEYN, Ye. A.; VOLKOVA, N. V.

Analysis of methods of estimation of the long-period strength of metals. Zav. lab. 28 no.12:1533-1535 '62.

- 1. Leningradakiy gosudarstvennyy universitet (for Kachanov).
- 2. Leningradskiy metallurgicheskiy zavod (for Kheyn).
 3. TSentral'nyy kotloturbinnyy institut im. I. I. Polzunova (for Volkova).

(Metals-Testing)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620004-4" DYACHENKO, S.S.; VOLKOVA—SHARAVSKAYA, N.M.; MIZRUKHIN, I.A.

Phagocytic activity of blood leucocytes as affected by prolonged interrupted sleep. Fiziol.zhur. [Ukr.] 1 no.6:19-27 N-D '55.

1. Kiivs'kiy medichniy institut imeni akademika 0.0.Bogomol'tsya, knfedri mikrobiologii i psikhiatrii.

(IEUCOCYTES) (PHAGOCYTOSIS) (SLEEP—THERAPEUTIC USE)

Some peripheral blood indexes in children in infectious jaundice; based on materials of the Children's Infectious Diseases Hospital No.7 of Alma-Ata. Zdrav. Kazakh. 21 no.9:44-48 '61. (MIRA 14:10)
1. Iz kafedry gospital'noy pediatrii (zav professor A.I.Avenirova) Kazakhskogo meditsinskogo instituta. (HEPATITIS, INFECTIOUS)
한국에 된 시민은 얼마를 하고 있다면 얼마를 하는 것이 되었다. 그 사람들은 살이 되었다.

1.8000 (1413, 1416, 2813)

25357 8/032/61/027/006/008/018 B124/B203

AUTHORS:

Liberman, L.Ya., and Volkova, N.V.

TITLE:

Tests for relaxation and creeping under tensile load

until destruction

PERIODICAL:

Zavodskaya laboratoriya, v. 27, no. 6, 1,61, 724-729

TEXT: The present paper gives the principal results obtained in developing a method of testing the relaxation of stress in one-dimensional elongation of smooth cylindrical specimens under repeated and cyclic load, as well as a method of combined relaxation tests until destruction of the specimens a method of combined relaxation tests until destruction of the specimens. The authors tested austenitic steel type 10.612 (E1612) (0.06% C, 14.% Ur, 34.92% Ni, 3.68% W, 1.13% Ti), structural steel type 20.1M111 (20Kh1M111) (0.21% C, 1.27% Cr, 1.02% No, 0.84% V), and steel type 28.51. (28KhVFTs) (0.28% C, 1.72% Cr, 0.64% W, 0.64% V, 0.16% Zr); the mechanical proporties of these steels are tabulated. In the relaxation tests under repeated load, the specimens were loaded repeatedly to the given initial load for 700 - 1000 hr (sometimes longer). In cyclic relaxation tests, the specimen was loaded to the initial stress for 100 hr each until its destruction. The Card 1/9

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620004-4"

25357 8/032/61/027/006/008/018 B124/B203

Tests for relaxation ...

relaxation stability rises with repeated loading. For studying the effect of previously accumulated plastic deformation on stress relaxation, the method of combined testing for relaxation and creeping was used instead of cyclic relaxation, in which the specimen had previously been in the condition of isothermal creeping at constant nominal stress until reaching the given plastic deformation of 0.1 - 1.0%. After reaching it, the specimen was released and tested for relaxation at the same temperature and an initial stress equal to, or slightly lower than the stress in creeping. The course of relaxation at different accumulated plastic deformation until destruction of the specimen was clarified by alternating creeping and relaxation tests. The Ref. 4 by V.I. Danilovskaya, G.M. Ivanova, and Yu.N. Rabotnov, Izvestiya AN SSSR, OTN, No. 5 (1955) is mentioned in this connection. Fig. 1,2 shows the relaxation curves (1-6) and curve 7 characterizing the plastic deformation in all creeping and relaxation cycles of the same specimen of EI612 steel; Fig.1, shows the same curves for another specimen of the same steel. Every creeping cycle of the first specimen was continued until reaching the plastic deformation of 0.1 - 0.3%, of the second specimen up to 0.7%; in the former case, the creeping cycle lasted 50-80 hr. in the latter case, 40 hr, the relaxation Card 2/9

25357 s/032/61/027/006/008/018 B124/B203

Tests for relaxation ...

cycles lasted 200-450, and 300-600 hr, respectively. Fig.2 illustrates the relation between residual stress and plastic deformation in creeping before each relaxation cycle. The formation of plastic deformation in relaxation, or relaxation and creeping, effects a damage to the steel which, in turn, accelerates the course of relaxation. The degree of damage can be determined by the quantity ϵ_{pd}/δ_d , where ϵ_{pd} is the arbitrarily (by relaxation, creeping, or relaxation and creeping) accumulated plastic deformation before starting the relaxation test, and \hat{s} is the elongation at break in creeping, determining the plasticity reserve of the steel. The quantity 1 - & pd/& characterizes the plasticity reserve conserved. The relation between relaxation stability ($\sigma_{\rm rst}/\delta_{\rm d}$) and damage ($\epsilon_{\rm pd}/\delta_{\rm d}$) or plasticity reserve (1 - ϵ_{pd}/δ_d) of EI612 steel is given in Fig.3. The elongation at break in the last relaxation of creeping cycle was 1.1 - 2.4%. In 28KhVFTs steel, the stress drop is delayed and the relaxation stability rises with increasing accumulated plastic deformation. In 20Kh1M1F1 steel, the relaxation stability rises continuously with plastic deformation almost to the instant of destruction. In austenitic steel EI612, the relaxation Card 3/9

25357 s/032/61/027/006/008/018 B124/B203

Tests for relaxation ...

stability drops continuously with rising plastic deformation and consumption of the plasticity reserve, whereas in perlite steels with high (29KhVFTs) and low (20Kh1M1F1) plasticity reserves it rises, and reaches a maximum near the destruction limit. In austenitic steel, the damage increases with plastic deformation, and the intergranular cracks enlarge under the action of stress, which accelerates relaxation, while the damages in perlite steels may "heal on their own", particularly at steadily dropping stress. There are 5 figures, 1 table, and 4 Soviet-bloc references.

ASSOCIATION: Teentral'nyy kotloturbinnyy institut im. I. I. Polzunova (Central Boiler and Turbine Institute imeni I. I. Polzunov)

Card 4/9

30041 s/032/61/027/011/008/016 B116/B102

10.7400

PERIODICAL:

volkeva, N.

AUTHOR: TITLE:

Analysis of methods for estimating the fatigue strength of metals operating with stress relaxation under periodic loading

Zavodskaya laboratoriya, v. 27, no. 11, 1961, 1360-1384

TEXT: The authoress reviews some methods used to estimate the fatigue strength of metals. A method is suggested, by which the linear drop of metal strength in time can be exactly determined during fatigue tests. According to the method of L.P. Nikitina (TsKTI) [Abstracter's note: paper not rublished], the fatigue strength is estimated from the formula

 $\sigma_{\text{mean}} = \sum_{i=1}^{\infty} \sigma_{i} \tau_{i} / \sum_{i=1}^{\infty} \tau_{i}$, where σ_{i} is the stress applied, and τ_{i} is the duration

of application. The "specific work" $\sigma_i \tau_i$ leading to destruction is,

however, stress dependent. The portion of "specific work" at high stresses is not very great but able to cause considerable damage. An idea of Vidal' (Zharoprochnyye splavy pri izmenyayushchikhsya temperaturakh i Card 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620004-4"

30041 \$/032/61/027/011/008/016 B116/B102

Analysis of methods for estimating ...

napryazhenijakh, - Heatproof Alloys at Varying Temperatures and Stresses, Gosenergoizdat (1960)) was utilized in Ye. A. Kheyn's method (Energomashinostroyeniye, no. 11 (1959)). That stress is taken as equivalent stress which results in a mean creep rate leading to destruction within the time t. This method shows the same principal error The equivalent stress will, in general, result in a mean rate which is different from the creep rate. In addition, the determination of destruction from the creep rate is very inexact. The method of L. M. Kachanov (Izvestiya AN SSSR, OTN, no. 5 (1960)) is based on his phenomenological theory of destruction due to creep. He proceeds from the assumption that contractions will slow down the reduction of stresses and that the relaxation cycles following the first stress cycle can be determined from the curve of permanent relaxation. Experimental data show that this assumption is unjustified since it yields too short periods of time before destruction. V. V. Burdukskiy (Nekctoryye vopresy konstruktivnoy prochnosti pri relaksatsin napryazheniy v metallakb. Avtorefera: dissertatsii, Institut metallurgii im. Baykova AN SSSR (Institute of Metallurgy imeni Baykov AS USSR) 1956) defines the lifetime

Card 2/14

300l₁1 8/032/61/027/011/008/016 B116/B102

analysis of methods for estimating ...

as $(\tau_i/\theta_i)^m$, where τ_i is the time for which the stress in question is applied, and 9 is the time until destruction at this stress. I is suggested as a criterion for the accumulation of damages. However, the results obtained at m / 1 and constant stress are absurd. After this review the authoress describes her method. It is assumed that strength drops linearly during fatigue tests and that the sum D of relative times at the instant of destruction is nearly equal to unity. A family of straigth lines, &=f(log t), is drawn in parallel with the fatigue-strength line. These straight lines are lines of the equivalent damage (Fig. 2). The spread of the fatigue strength lies between two stre ght lines which are parallel to those obtained from existing points by the method of least squares. The damage corresponding to the central straight line is taken as a unit which determines the time before destruction at a given stress. Thus, one obtains a range of possible sums of the relative times leading to destruction of the material. Several tests (repeated contraction during relaxation or successive loading with creep at constant stress; has shown that satisfactory results can be obtained only by this method. In order to find a method for extrapolating the relaxation curve, it is necessary that the dependence of the variation in relaxation strength

200h1 S/032/61/027/011/008/016 B116/B102

Analysis of methods for estimating ...

on the accumulation of plastic deformations be examined. There are 3 figures, 3 tables, and 5 Soviet references.

AUSOCIATION. Tsentral'nyy kotloturbinnyy institut im. 1. 1. Pelsunova (Central Boiler and Turbine Institute imeni I. 1. Pelsunov)

Fig. 2. Fatigue strength of steels 30612 (EI612) (a) and 2001117 (20Kh1M1F1) (6). Legend, (1) Mean stress calculated from the "specific work" of destruction; (2) equivalent stress corresponding to the sum of relative times; (3) equivalent stresses calculated by Kheyn's method at the mean final stress of the stress cycles; (4) interval of possible values of the equivalent stress, calculated by Kheyn's method at different residual stresses of the stress cycles; (5) interval of possible values of stress corresponding to the mean creep rate; a 6; the test temperature is 650 and 560°C, respectively; abscissa, time T. hr; ordinate, stress 6.

Card 4/1 4

V.

VOLKOVA, N.V.; SHILOV, Ye.A.; YASNIKOV, A.A.

. 生活開發電影音音

Catalytic action of amino acids and amines in reactions of carbonyl compounds. Part 16: Kinetics and mechanism of iodination of acetol phosphate in the presence of ethylenediamine. Ukr. khim. zhur. 31 no.1:56-66 '65. (MIRA 18:5)

1. Institut organicheskoy khimii AN UkrSSR.

VOLKOVA, N.V.; YASNIKOV, A.A.

Products of phosphorylation of acetol by phosphorus oxychloride in quinoline. Ukr. khim. zhur. 31 no.1:119-120 '65. (MIRA 18:5)

1. Institut organicheskoy khimii AN UkrSSR.

	AUTHOR: Volkova, N. V.
5A	TITLE: Tumperature dependence of the brittle strength of ionic grystals
	SOURCE: Fizika tverdogo tela, v. 6, no. 10, 1964, 3114-3117
	TOPIC TAGE: ionic crystal, temperature dependence, brittle state, lithium compound, tensile strength, compression strength, shear
	ABSTRACT: Lithium fluoride crystals, grown by the Kyropoulos method, contained 0.002% Mg ("pure" Crystals) or 0.02% Mg ("impure" crystals). Their ultimate tensile strength ob, compression of yield stress (defined as the stress at which the strain-stress curve departed from linearity) and the critical shear stress of the stress at which
2. 6	nonuniform generation of dislocations began) were measured between

L 10370-65 ACCESSION NR: AP4046629 20°C and -160°C; they ranged from 1 to 10 kg/mm². The parallel temperature dependences of σ_b and σ_{cr} for "pure" crystals and the similarity of their numerical values suggested that nonuniform generation of dislocations preceded and determined the fracture at low temperatures. Local concentrations of stresses were produced on cooling due to the difference between the linear thermal expansion coefficients of LiF and Mg, which was probably present as MgF2. The lack of temperature dependence of $\sigma_{\mathbf{b}}$ and $\sigma_{\mathbf{cr}}$ for "impure" crystals was due to the compensating effect of two opposite influences: cooling and increase of the effective stress (due to local tensile stresses at impurities). Orig. art. has: 3 figures. ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad (Physicotechnical Institute, AN SSSR) 12May64 SUBMITTED: ENCL: SUB CODE: TR REF SOV: OTHER: 00 T

Studying the triplet states of molecules by the methods of luminescence and electron paramagnetic resonance. Opt.1 spektr.

12 no.5:657-659 My '62. (MIRA 15:5)

(Molecular dynamics) (Luminescence)

(Paramagnetic resonance and relaxation)

GRUM-GRZHIMAYLO, S.V.; BRILLIANTOV, N.A.; VOLKOVA, N.V.; DOBRZHANSKIY, G.F.; SVIRIDOV, D.T.

Light absorption spectra of nickel ammonium sulfate monocrystals at temperature from 290° to 1.7°K. Kristallografiia 7 no.1: 84-88 Ja-F 162. (MIRA 15:2)

1. Institut kristallografii AN SSSR i Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
(Nickel ammonium sulfate crystals--Spectra)

VOLKOVA, N.V.; YASNIKOV, A.A.

Mechanism of the condensation of enamines with aldehydes.
Dckl.AN SSSR 149 no.1494-96 Mr '63. (MIRA 16:2)

1. Institut organicheskoy khimii AN Ukresr. Predstavleno akademikom B.A. Kazanskim.
(Amines) (Aldehydes)

IJP(c) JW/JD/HW INT(1)/EWT(m)/T/EWP(b)/EWA(d)/EWP(w)/EWP(t) Pad L 38537-65 5/0181/65/007/002/0474/0476 AP5005285 ACCESSION NR: AUTHOR: Below, K. P.; Coryaga, A. N.; Volkova, N. V. TITLE: Anomaly of electric resistivity in the region of the compensation temperature in the ferrite NiFe1.26V0.7404 SOURCE: Fizika tverdogo tela, v. 7, no. 2, 1965, 474-476 TOPIC TAGS: nickel ferrite, temperature dependence, electric resistivity, compensation temperature, activation energy, resistance anomaly ABSTRACT: Continuing an earlier study of the temperature dependence of the electric resistivity of certain ferrites (ZhETF v. 38, 1914, 1960) with the special aim of determining the nature of the anomalies in the region of the compensation point, the authors made a thorough study of the electric resistivity (p) of the ferrite HiFe1.26 0.7404, which has a lower resistivity and a lower activation energy than the previously studied ferrites. The sample was prepared by a usual ceramic technology from the pure oxides NiO, Fe₂O₃, and V₂O₃ and annealed in vacuum at 1100C. The test results have shown that in the region of the temperature of com-Card 1/2

ti" [Ferrite vestigated in	th the t	gnetic moments of the sublattices (of $\ln \rho(\theta_c/T)$). The experimental representation of Ye. A. Tu AN BSSR, Minsk, 1960). The great research, as compared with	rov et al (Collection	form '
tion on goir formula.	due to t	esent research, as compared with the lower resistivity and to the standard the compensation point. Orig. a skiy gosudarstvennyy universitet in	the previously in the feather previously investigations increase in magnet, has: 3 figures a	rite in- gated letiza- ind l
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NR REF SOV		OTHER! 00S	,	

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860620004-4"

KOKHANOVICH, M.V.; VOLKOVA, O.A.; VOLYNSKIY, A.M.

Changes in vaccular reactions depending on the location of the application of therapeutic mud and its temperature. Vop. kur., fizioter. 1 lech. fiz. kulit. 29 no.4:330-336 Jl-Ag '64. (MIRA 18:9)

1. Kafedra fakulitetskoy terapii (zav. - prof. M.V.Kokhanovich) i kafedra normalinoy fiziologii (zav. - dotsent A.M.Volynskiy) Krymskogo meditsinskogo instituta, Simferopoli.

L 45783.66 EWT(1)/EWT(m)/FEC(k)-2/EWP(k)/T/EWP(L)/FTI
ACC NRI AP60:30966 FOURIER GODD WG/JD/IW/IG SOURCE CODE: UR/0181/66/008/009/2668/2671 AUTHOR: Volkova, N. V.; Likhachev, V. A.; Ryvkin, B. M.; Salmanov, V. M.; Yaroshetskiy, I. D. ORG: Physicotechnical Institute im. A. F. Ioffe AN SSSR, Leningrad (Fizikotekhnicheskiy institut AN SSSR) TITLE: Destruction of LiF single crystals by laser radiation 27 SOURCE: Fizika tverdogo tela, v. 8, no. 9, 1966, 2668-2671 TOPIC TAGS: lithium fluoride, laser radiation, laser effect, crystal defect, crystal dislocation phenomenon, laser r and d ABSTRACT: This is a continuation of earlier studies of damage to transparent dielectrics by laser radiation (ZhETF v. 50, 1187, 1966), where principal attention was paid to amorphous substances. The present article deals with the effect of the energy contained in the laser pulse on the general evolution of damage to single-crystal LiF and describes the dislocation structure in the cleavage surfaces. The experimental procedure is similar to that described in the earlier paper. A pulsed neodymium glass laser was used, with the light beam directed always along the (001) crystal axis. Damage occurred at pulsed energy density exceeding 100 J/cm2, corresponding to ~ 0.2 x 106 W/cm2. At this threshold value, damage usually started Card 1/2

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with a single crack in the (001) plane, perpendicular to the beam increasing energy, additional cracks appeared and their character with the energy. The evolution of the damage is explained from the existence of a hypersonic damage mechanism, wherein the crack by a hypersonic wave, and absorption of heat in the crack leads the gration. The peculiar dislocation pattern observed on the cleave tric circles or ellipses) is attributed to the intermittent character of the crack front, due in turn to spiking. Orig. art. has: 3 for the crack front, due in turn to spiking.	and pattern varied he point of view of is produced first o further disinte— ge surface (concen— cter of propagation
SUB CODE: 20/ SUBM DATE: 31Jan66/ ORIG REF: 003/ OTH REF: 0	O1/ ATD PRESS:
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SOURCE CODE: UR/0413/66/000/019/0120/0120

INVENTORS: Fedot'yev, N. P.; Vyacheslavov, P. M.; Burkat, G. K.; Volkova, N. V.

ORG: none

TITLE: An electrochemical method for obtaining a binary silver alloy. Class 48, No. 186825 /announced by Leningrad Order of the Workers Red Banner Technological Institute imeni Lensovet (Leningradskiy ordena Trudovogo Krasnogo Znameni tekhnologicheskiy institut)/

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 120

TOPIC TAGS: silver, alloy, silver containing alloy, binary alloy, cobalt compound, potassium compound

ABSTRACT: This Author Certificate presents an electrochemical method for obtaining a binary silver alloy from an electrolyte containing silver cyanide complex. To improve the resistance to abrasion, hardness and the resistance to corrosion of the precipitated coatings, the process is conducted at a temperature of 40-450 and at a current density of 0.1--0.5 a/dm², while the electrolyte is being mixed. The composition of the electrolyte should include pyrophosphates of cobalt and of potassium in the following proportions of the components (in g/liter): metallic silver -- 0.1--0.4; metallic cobalt -- 2.0--3.2; free potassium pyrophosphate -- SUB-CODE: 11, 07/ SUBM DATE: OFMay65

SOURCE CODE: UR/0181/66/008/012/3595/3601 ACC NR: 117005819 AUTHOR: Volkova, N. V.; Likhachev, V. A.; Salmanov, V. M.; Yaroshetskiy, I. D. ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fizikotekhnicheskiy institut AN SSSR) TITLE: Kinetics of formation and healing of damage produced in lithium-fluoride single crystals by a laser beam SOURCE: Fizika tverdogo tela, v. 8, no. 12, 1966, 3595-3601 TOPIC TAGS: laser effect, semiconductor laser, semiconductor single crystal, crystal lattice dislocation, waring CRACK PROPAGATION ABSTRACT: This is a continuation of earlier work (ZhETF v. 50, 1187, 1965 and elsewhere), where it was shown that a laser beam produces cracks in alkali-halide crystals although no detailed description was given of the nature of the cracks). To determine this structure and to explain the mechanism whereby the damage is initiated, the authors investigated LiF single crystals measuring 20 \times 20 \times 20 mm cleaved along the cleavage planes. A neodymium laser operating in the spiked mode was used. The beam focusing procedure was the same as in the earlier work, the damage was examined under a microscope, and the dislocation structure was revealed by selective etching. Besides confirming the earlier results, the present tests damage produced by the laser pulse consists of a main crack in the cleavage plane (001) normal to the beam, and dislocation slip along directions forming a rosette-like

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pattern, the occurrence of which can be interpreted by assuming a suitable combination of thermal and elastic stresses produced in the crystal by the passage of the laser beam and hypersonic oscillations accompanying it. Annealing the crystal after the damage, either in air or in the oven, led to healing of the cracks characterized by a unique structure of the front of the annealed rosette. Thile the causes of this healing are not clear, they definitely can be ascribed to transport of matter via the gas phase, as proposed in a number of papers. The authors thank S. K. Ryvkin for continuing interest and a discussion of the results. Orig. art. has: 5 figures.[02]

SUB CODE: 20/ SUBM DATE: 27May66/ ORIG REF: 007/ OTH REF: 003/

Card 2/2

EMT(d)/EMT(1)/EMP(v)/EMP(k)/EMP(h)/EMP(1)/EMA(h)/ETC(x)UR/0286/65/000/015/0088/ ACCESSION NR: AP5024408 Shenderovich. Volkova, Zudova, L. AUTHORS: Popandopulo, G. K.; Class 42, No. 173430 TITLE: Attachment for water level recorders. 12,55 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 88 TOPIC TAGS: liquid level instrument, remote control system ABSTRACT: This Author Certificate presents an attachment for water level recorders, containing an electric current source, a device for obtaining heteropolar electric signals obtained as a result of a change in the monitored level, and a double lead communication line. To increase the reliability of remote control, the limiting resistance of the electric current source is shunted by a normally open contact unit which closes at a predetermined level (see Fig. 1 on the Enclosure). Orig. art. has: 1 diagram. ASSOCIATION: Nauchno-issledovatel'skiy institut gidrometeorologicheskogo priborostroyeniya (Scientific Research Institute of Hydrometeorological Instrument 55 Manufacturing) 681.128.6:621-519 UDC: Card 1/3

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